(11) **EP 1 524 456 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 01.08.2007 Bulletin 2007/31

(51) Int Cl.: F16H 61/02^(2006.01)

(43) Date of publication A2: **20.04.2005 Bulletin 2005/16**

(21) Application number: 04024674.6

(22) Date of filing: 15.10.2004

(84) Designated Contracting States: AT BE BG CH CY CZ DE DK EI

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR Designated Extension States:

AL HR LT LV MK

(30) Priority: 16.10.2003 JP 2003355808

(71) Applicant: Isuzu Motors Limited Shinagawa-ku, Tokyo (JP)

(72) Inventor: Suzuki, Michinobu Isuzu Motors Limited Fujisawa-shi Kanagawa (JP)

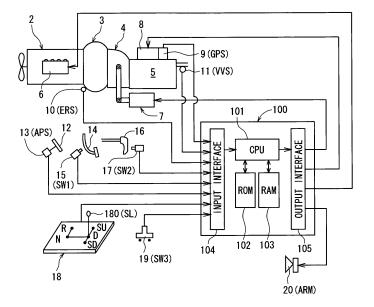
(74) Representative: **Beetz & Partner Steinsdorfstrasse 10 80538 München (DE)**

(54) Device for controlling a start of a vehicle

(57) A device for controlling a start of a vehicle by conducting the shifting operation of a transmission (5) mounted on a vehicle by using a gear change actuator (8), comprising a starting gear change instruction means (18) for instructing a change of a predetermined starting gear position, a brake operation detection switch (15) for detecting the brake operation of the vehicle, and a control means (100) for controlling the gear change actuator (8)

based on the detection signals from the starting gear change instruction means (18) and from the brake operation detection switch (15), wherein, when a change for the starting gear position is instructed from the starting gear change instruction means (18), the control means (100) controls the gear change actuator so as to shift the transmission to the instructed gear position only when the operation of the brake has been detected.

Fig. 1



EP 1 524 456 A3



EUROPEAN SEARCH REPORT

Application Number EP 04 02 4674

Category	Citation of document with indica	tion, where appropriate,	Relevant	CLASSIFICATION OF THE
Calegory	of relevant passages		to claim	APPLICATION (IPC)
Х	GB 2 355 503 A (LUK LA KUPPLUNGSBAU [DE]) 25 April 2001 (2001-04		1	INV. F16H61/02
Υ	* claim 1; figure 1 * * page 2, lines 16-21 * page 4, line 16 - page 6, line 2 - page 7 * page 8, line 26 - page 8	* age 5, line 7 * ge 7, line 4 *	2	
Υ	DE 100 55 046 A1 (VOLE 8 May 2002 (2002-05-08 * column 3, lines 27-3	3)	2	
				TECHNICAL FIELDS SEARCHED (IPC)
	The present search report has been	drawn up for all claims	_	
	Place of search	Date of completion of the search	<u> </u>	Examiner
Munich		8 June 2007	Wer	rner, Michael
X : part Y : part docu A : tech	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another ument of the same category inological background -written disclosure	T: theory or principle E: earlier patent doc after the filing dat D: document cited in L: document cited fo	sument, but publice e n the application or other reasons	shed on, or

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 04 02 4674

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

08-06-2007

	Patent document cited in search report		Publication date	Patent family member(s)		Publication date
	GB 2355503	Α	25-04-2001	DE FR IT JP US	10043809 A1 2800144 A1 MI20002264 A1 2001153219 A 6383116 B1	26-04-2001 27-04-2001 19-04-2002 08-06-2001 07-05-2002
	DE 10055046	A1	08-05-2002	NONE		
0459						
O FORM P0459						

 $\stackrel{\text{O}}{\stackrel{\text{d}}{\text{u}}}$ For more details about this annex : see Official Journal of the European Patent Office, No. 12/82